Medtronic

Getting Started

with CareLink® Personal Software

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DEVICES YOU CAN READ WITH CARELINK PERSONAL SOFTWARE*

MiniMed® series pumps

Guardian® REAL-Time® monitors

Various glucose meters

*See on-line User Guide for complete list of supported devices and meters.

HOW TO USE THIS GETTING STARTED GUIDE

Set-Up and General Overview

This Getting Started Guide will provide you with instructions for setting up your CareLink Personal account, uploading your devices, and tools to use as you evaluate some of the reports that you can obtain with CareLink.

This booklet may be used as an ongoing resource for you.

The complete user guide for CareLink Personal software is located in the **Help** section after you log in to the web-based software.

Medtronic
CareLink Personal
My Info
Preferences
Help
Sign-Off
Home
Upload
Logbook
Reports
Welcome Back,
What Can I Do Next?
Upload Data from My Device
Enter Data into My Logbook
Generate Reports
The Online Store is open - 24 hours a day
The Online Store remains open to you around the clock and is the best way to order additional supplies or accessories like pump cases, remotes and data management products. Register today and learn more about mySupplyConnection: our pump supplies, automatic delivery program.
NOW Available! New CareLink USB Upload Device. To upload data to the system you'll need a cable or other connectivity device. For the latest promotion on the new CareLink USB upload device - click here. If you need a cable for your meter please contact your meter company.

NOTE Prior to updating your computer operating system, you may want to check **http://www.medtronicdiabetes.com/support/carelink-personal** to be sure that the updated operating system will be compatible with the CareLink Personal software.

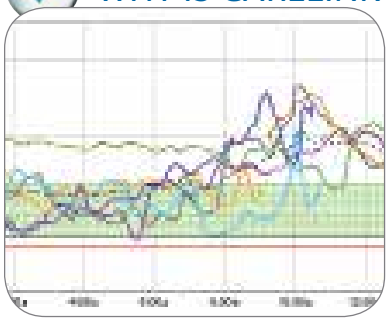
WHAT IS CARELINK?

CareLink Personal software allows you to upload information from your insulin pump, Continuous Glucose Monitoring (CGM) device, and blood glucose meter to assess glucose control through a free, web-based program, making it easier to uncover trends and patterns.

WHAT DO I NEED TO START?

All it takes to get started is an easy upload using the Bayer CONTOUR® NEXT LINK Blood Glucose Meter or the CareLink USB device provided with a MiniMed series pump or Guardian REAL-Time monitor.

WHY IS CARELINK USEFUL?



Easily track your glucose levels and the impact of insulin delivery, meals and exercise routines.

Store your information securely.

Uncover patterns and make more informed therapy decisions.

Sign up for a CareLink account and get started by simply uploading information from your pump using your CareLink communication device.

Let's get started!

FOR A LIST OF SUPPORTED OPERATING SYSTEMS PLEASE SEE:
http://www.medtronicdiabetes.com/support/carelink-personal

Click on Setting Up & Uploading on a Personal Computer or Setting Up & Uploading on a Mac for details.

SIGNING UP FOR YOUR CARELINK ACCOUNT

When you are ready to use CareLink, go to: http://medtronicdiabetes.com/carelink.

Please remember that you should not insert the CareLink USB device until prompted.

This will take you to the CareLink Welcome screen.

Before using CareLink for the first time, you need to set up a user account and password. To do so, just follow these easy steps:

STEP 1:
From the Welcome screen, click the **Sign Up Now** button.

STEP 2:
After you have accepted the terms of agreement, you'll be asked to create a username and password. The password can be any combination of letters or numbers from 4 to 20 characters. Be aware that passwords are case-sensitive. **Be sure to save your user name and password in a safe place**, and don't share them with anyone else. You can use one of the cards on the back cover to write down this information.

STEP 3:
Enter your personal information in all the required fields and click the Submit button at the bottom of the form.

Once you have registered to use CareLink, you can log in from the Welcome screen using your new username and password.

NOTE Prior to inserting CareLink USB, Windows Vista/7/8 users will need to first follow the "Set-up Instructions for Windows Vista and Windows 7 and 8 Users" to successfully install the CareLink USB drivers (on page 10).

BEFORE YOUR UPLOAD TO CARELINK

When you are ready to upload to CareLink, make sure to have your insulin pump or Guardian® monitor and all BG meters on hand. If you are using a linked meter, those BG values will be in your insulin pump or Guardian and you will not need to upload your meter.

CareLink will walk you through the upload process, telling you which device to upload and when to connect it. Simply follow the instructions in each window, making sure to click **Next >** when you are ready to move on.

NOTE: Wait until prompted to connect your USB device to a USB port on your computer.

Your insulin pump may go into Suspend mode and stop dispensing insulin during the upload process. The software will automatically return it to normal operation when the upload process is complete.

You may not be able to upload if your pump is in a special feature mode and you see the open circle next to your reservoir icon on the pump screen. Complete or cancel any bolus or temp basal in progress.

Make sure your computer and your device(s) are displaying the current date and time. They should be within one minute of each other to ensure that the information that is shared between them is consistent.

If you're using the Bayer CONTOUR NEXT LINK Meter:

Go to page 6 for upload instructions.

If you're using the CareLink USB device:

Go to page 12 for upload instructions.

NOTE The data uploaded from your device(s) through the USB is stored on the CareLink secure server, not on your computer. CareLink meets high standards for security. It's actually safer than storing data on your own computer.

For instructions on how to view and print reports, see pages 35–36.

UPLOADING YOUR DEVICE WITH THE **BAYER CONTOUR® NEXT LINK METER**

For Windows Only

One time Driver install happens the first time you upload a CONTOUR NEXT LINK (as a meter), or upload a pump through the CONTOUR NEXT LINK. The next time you upload you will not see this screen.

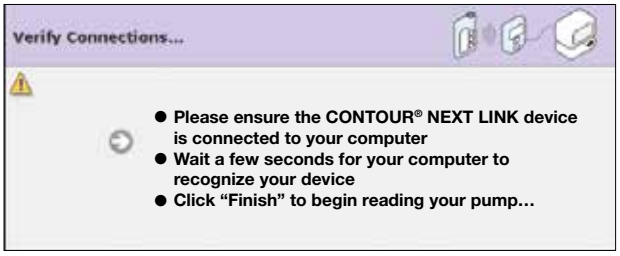
Installation Needed...
We need to install a USB driver to read data from your pump.
You will need to log in as an administrator on your computer, or provide an administrator password.

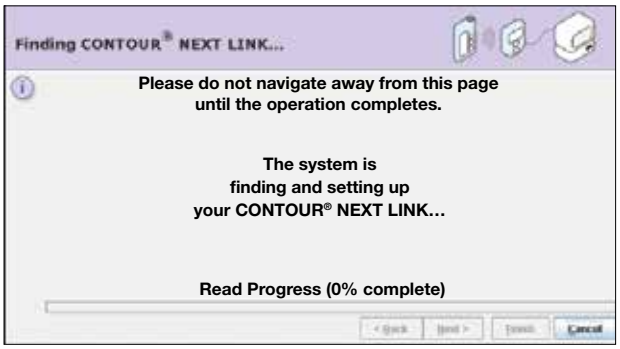
For Windows Only

A password may be requested if in Windows 7, 8 or Vista. Some screens flash by, and then you see this screen. It displays regardless of whether your CONTOUR NEXT LINK is plugged in or not.

Finish Installation
1. Connect the CONTOUR® NEXT LINK device to your computer.
2. Wait a few seconds for your computer to recognize the device.
3. Click Next.

The following screen shows each time you upload a pump through the CONTOUR NEXT LINK (including the first time you upload your device, after driver install). When you plug in the device, you may see Windows recognize it in the system tray.

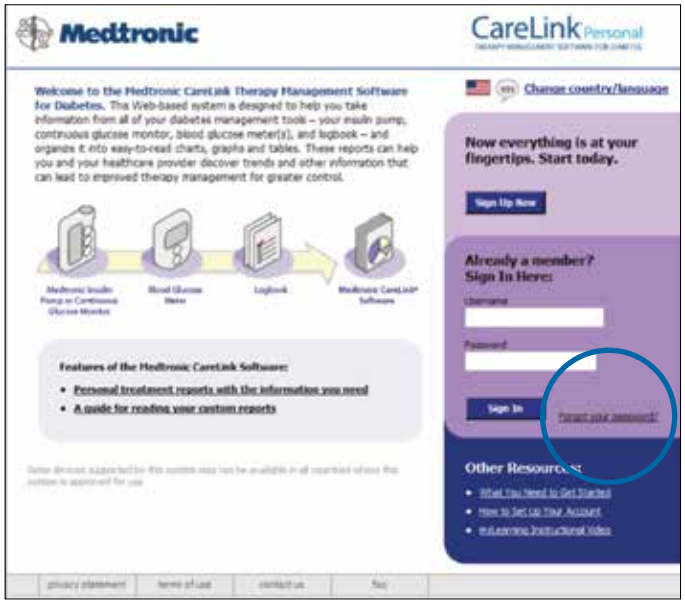

Verify Connections...
● Please ensure the CONTOUR® NEXT LINK device is connected to your computer
● Wait a few seconds for your computer to recognize your device
● Click "Finish" to begin reading your pump...


Finding CONTOUR® NEXT LINK...
Please do not navigate away from this page until the operation completes.
The system is finding and setting up your CONTOUR® NEXT LINK...
Read Progress (0% complete)

STEP 1:
Go to **www.medtronicdiabetes.com/carelink**
Enter your user name and password.
Click on **Sign In.**

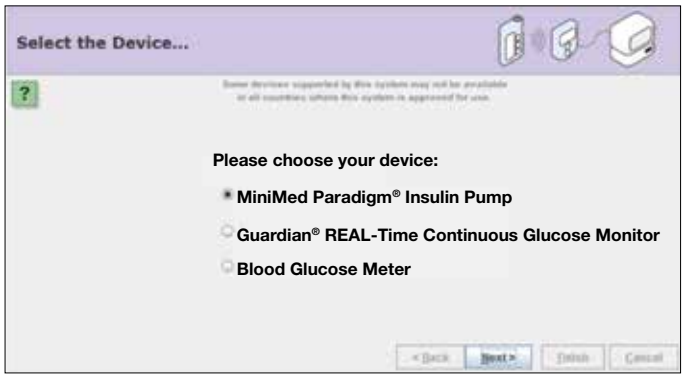
NOTE If you forget your password, click on **Forgot your password?**

You will need to enter your Username and the e-mail address from your CareLink profile. A temporary password will be sent to your e-mail address. You will then enter a new password into your account.


Medtronic
CareLink Personal
Welcome to the Medtronic CareLink Therapy Management Software for Diabetes.
Change country/language
Now everything is at your fingertips. Start today.
Already a member? Sign In Here:
Sign In
Forgot your password?
Other Resources
Features of the Medtronic CareLink Software:
Personal treatment reports with the information you need
A guide for reading your custom reports

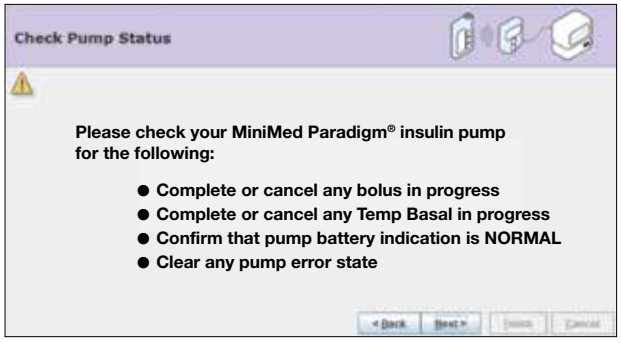
STEP 2:
Click on **Upload Data from My Device**. This screen will display your last five uploads.

STEP 3:
Choose device.



STEP 4:

The **Check Pump Status** screen verifies that your pump is ready to upload.


Check Pump Status
Please check your MiniMed Paradigm® insulin pump for the following:
Complete or cancel any bolus in progress
Complete or cancel any Temp Basal in progress
Confirm that pump battery indication is NORMAL
Clear any pump error state
< Back
Next >

STEP 5:

The **Identify the pump** screen requires that you enter your pump serial number.

Once you do this, the software will save your current pump serial number and you won't have to enter this the next time you upload.

STEP 6:

The **Select the Device** Screen asks you to choose the device that you will be using to link your device to the software.

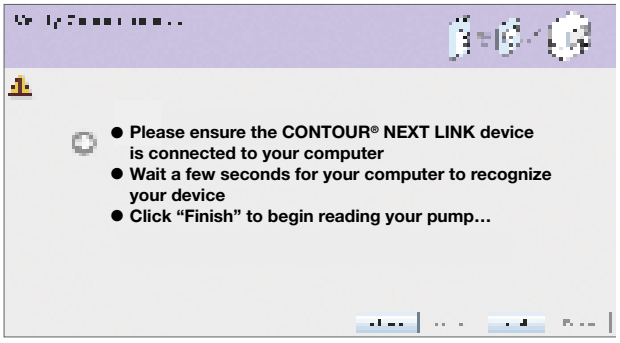
STEP 7:

The **Finish Installation** screen lets you know that you are now ready to insert the device you will be using to link your device to the software.

Finish Installation
1. Connect the CONTOUR® NEXT LINK device to your computer.
2. Wait a few seconds for your computer to recognize the device.
3. Click Next

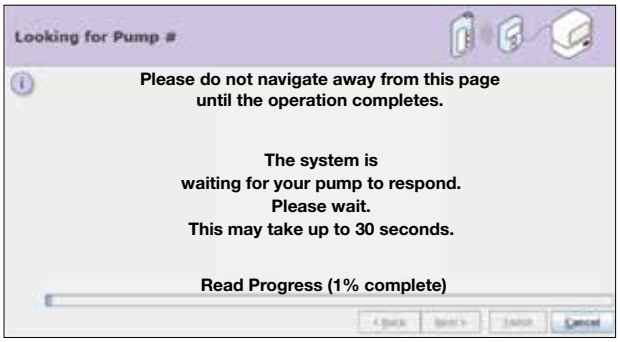
STEP 8:

When you see the **Verify Connections** window, read the steps. This is to ensure you have properly set up communication between your computer and your device. When you are ready to complete the upload, click **Finish**.


● Please ensure the CONTOUR® NEXT LINK device is connected to your computer
● Wait a few seconds for your computer to recognize your device
● Click "Finish" to begin reading your pump…

STEP 9:

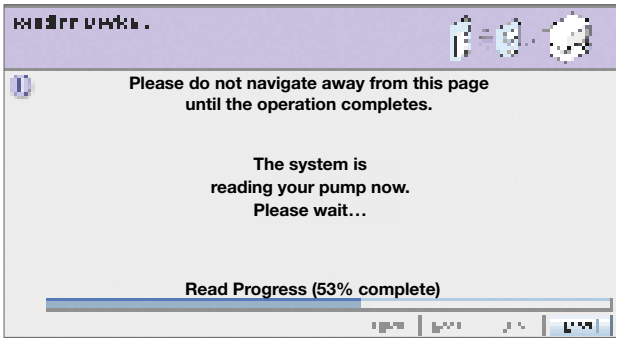
The **Looking for Pump #** xxxxxx tells you that the system is waiting for the pump to respond.

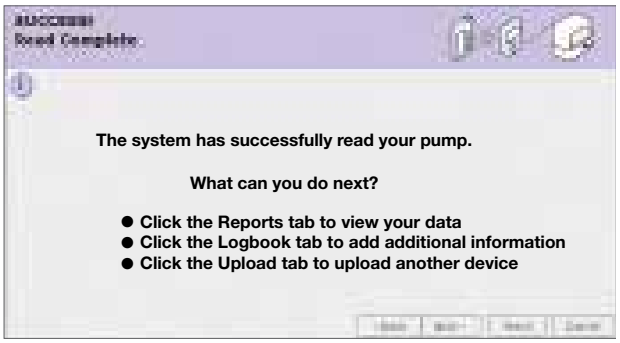

Looking for Pump #
Please do not navigate away from this page until the operation completes.
The system is waiting for your pump to respond.
Please wait.
This may take up to 30 seconds.
Read Progress (1% complete)

STEP 10:

A progress window will then be displayed. The amount of time it takes to upload your data will depend on how much data needs to be uploaded.

When the upload completes successfully, a **message** will be displayed, and allow you to view your reports.


Please do not navigate away from this page until the operation completes.
The system is reading your pump now.
Please wait…
Read Progress (53% complete)


The system has successfully read your pump.
What can you do next?
● Click the Reports tab to view your data
● Click the Logbook tab to add additional information
● Click the Upload tab to upload another device

NOTE Be sure to upload any additional devices that you use, such as your glucose meter. To do so, follow the above steps. This will allow you to see all your important information on your CareLink reports.

To upload a glucose meter you will need a cable that works with your specific compatible meter.

If you use a linked meter, your glucose values will be in your insulin pump or Guardian and do not need to be uploaded separately.

If you click on another tab or link during an upload, the upload will be cancelled. You can also stop the upload by clicking **Cancel**.

SET-UP INSTRUCTIONS

For Windows® Vista,® 7 and 8 users there are additional steps needed to set up your CareLink USB as your communication device.

This will only need to be completed the first time you use your CareLink USB in order to install the drivers needed to run the software.

If using Windows 8 follow the instructions below:

STEP 1:
Close all Internet Explorer® browser windows. **Do not use Internet Explorer from the Start screen.**

STEP 2:
Click on **Desktop icon**

STEP 3:
Right click on **Internet Explorer®** from the task bar

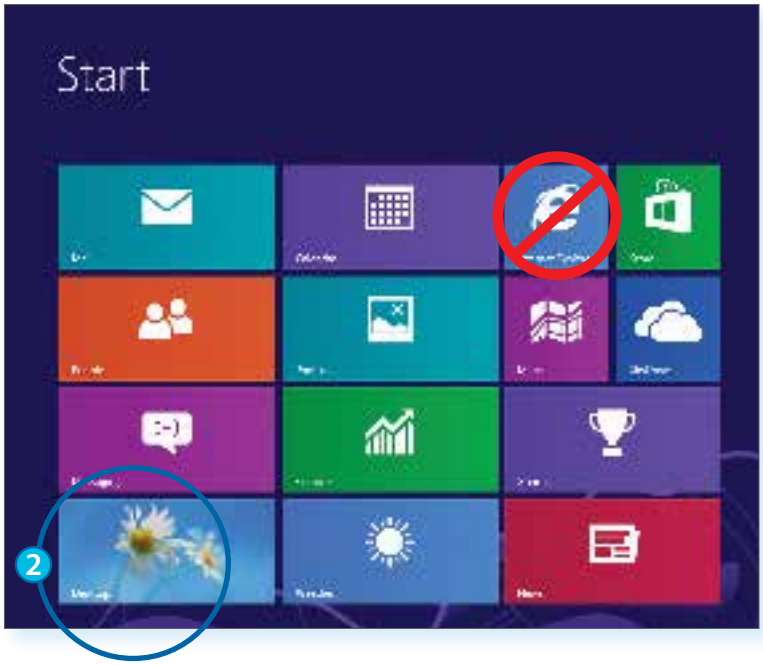
STEP 4:
Right click on **Internet Explorer** in the pull-up menu

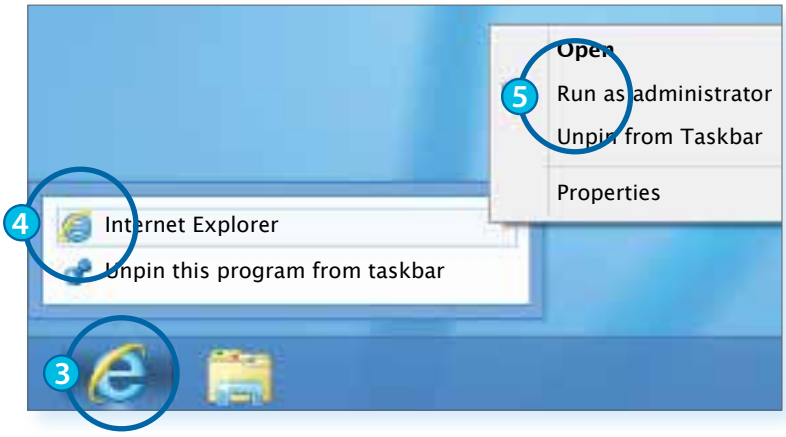
STEP 5:
Click on **Run as administrator**

STEP 6:
When the "User Account Control" window is displayed, click **Allow**

STEP 7:
Log on to CareLink Personal software: http://medtronicdiabetes.com/carelink. **Always use Internet Explorer from the Desktop, not the Start screen, when accessing CareLink Personal.**

STEP 8:
Upload your device.





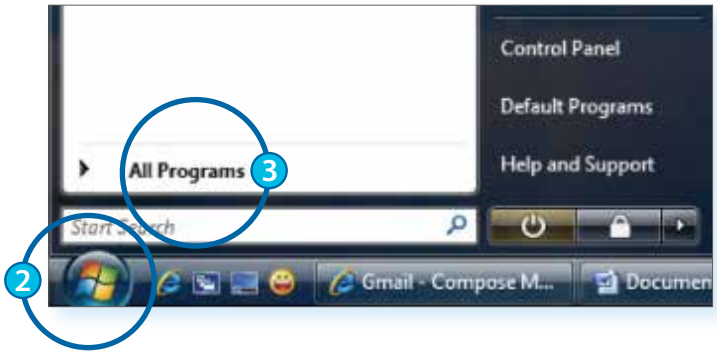
HAVING TROUBLE?
Visit **www.medtronicdiabetes.com/carelinksetup** for step-by-step instructions or call the Medtronic 24-Hour HelpLine anytime at 1.800.646.4633, option 1 for assistance.

To find out if the computer you are using is on the Windows Vista or Windows 7 operating system, right click on **Computer** then select **Properties** to view basic information about your computer. If using Windows Vista or 7, please follow the instructions below

STEP 1:
Close all Internet Explorer® browser windows.

STEP 2:
Click on the **Windows® icon**.

STEP 3:
Click on **All Programs**.



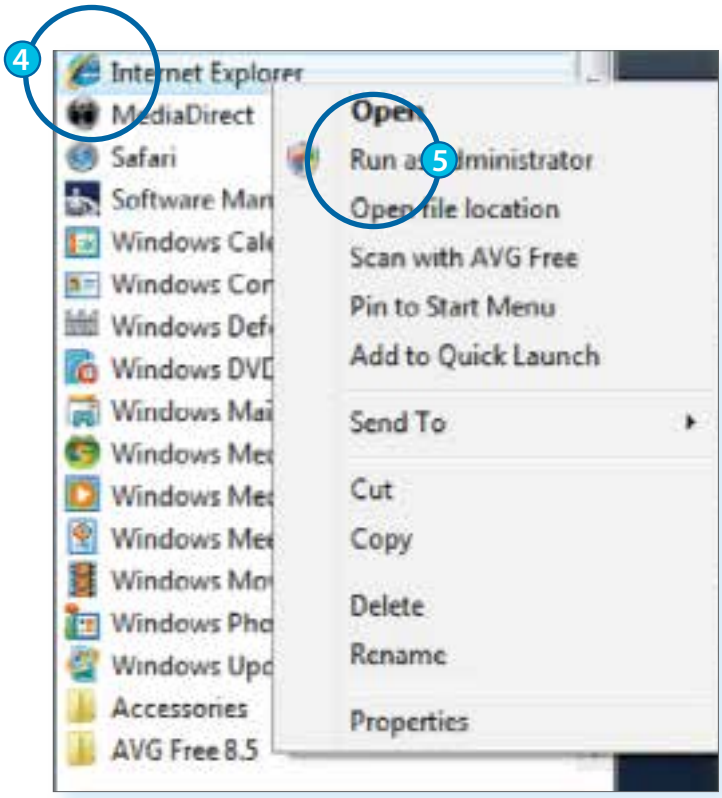
STEP 4 :
Right-click on the **Internet Explorer** option.

STEP 5:
Click on **Run as Administrator**.

STEP 6:
When the "User Account Control" window is displayed, click **Allow**.

STEP 7:
Log on to CareLink Personal software:
http://medtronicdiabetes.com/carelink

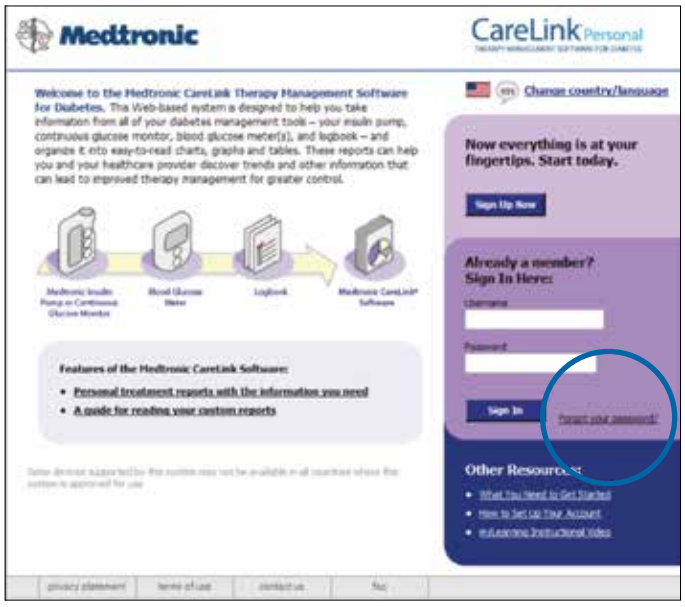
STEP 8:
Upload your device.



At this point, set-up for Windows® Vista® or Windows 7 or 8 is complete. Once you complete an upload successfully, you do not need to repeat this process.

UPLOADING YOUR DEVICE USING **CARELINK USB**

STEP 1:
Go to **www.medtronicdiabetes.com/carelink**
Enter your user name and password.
Click on **Sign In.**

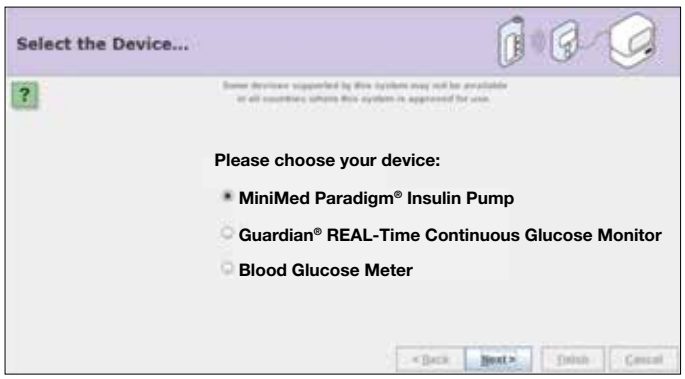

Medtronic
CareLink Personal
Welcome to the Medtronic CareLink Therapy Management Software for Diabetes.
Change country/language
Now everything is at your fingertips. Start today.
Sign Up Now
Already a member? Sign In Here:
Sign In
Forgot your password?
Features of the Medtronic CareLink Software:
Other Resources

NOTE If you forget your password, click on **Forgot your password?**

You will need to enter your Username and the e-mail address from your CareLink profile. A temporary password will be sent to your e-mail address. You will then enter a new password into your account.

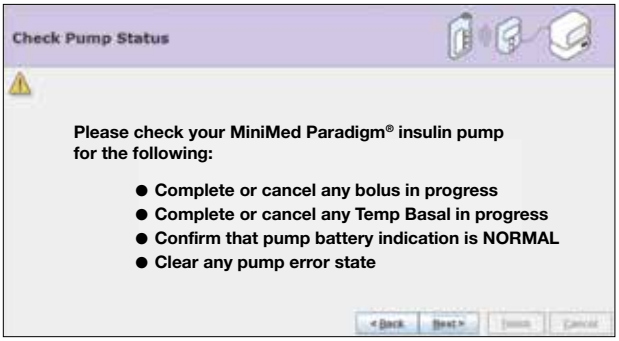
STEP 2:
Click on **Upload Data from My Device**. This screen will display your last five uploads.

STEP 3:
Choose device.



STEP 4:

The **Check Pump Status** screen verifies that your pump is ready to upload


Check Pump Status
Please check your MiniMed Paradigm® insulin pump for the following:
Complete or cancel any bolus in progress
Complete or cancel any Temp Basal in progress
Confirm that pump battery indication is NORMAL
Clear any pump error state

STEP 5:

The **Identify the pump** screen requires that you enter your pump serial number.

Once you do this, the software will save your current pump serial number and you won't have to enter this the next time you upload.

STEP 6:

The **Select the Device** screen asks you to choose the device that you will be using to link your device to the software.

STEP 7:

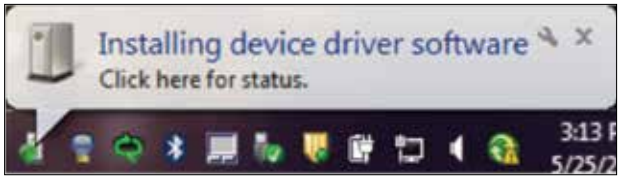
The **Finish Installation** screen lets you know that you are now ready to insert the device you will be using to link your device to the software.

Finish Installation
1. Connect the CareLink® USB device to your computer.
2. Wait a few seconds for Windows® to recognize the device.

STEP 8:

The **Installing device driver software** message will show up when you have followed the above steps in setting up your CareLink USB and the drivers for the CareLink USB are being installed.

This step only occurs the first time you use the CareLink USB and install the drivers.

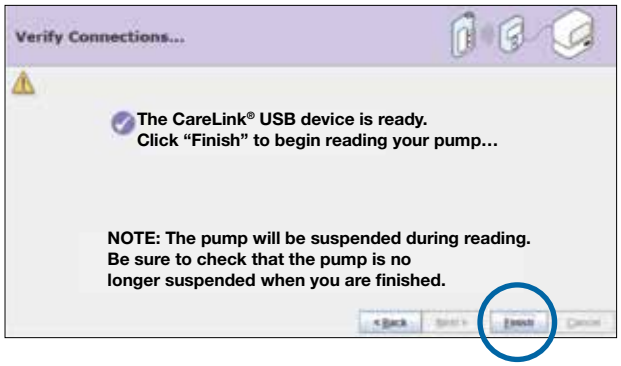


STEP 9:

The **Verify Connections** screen lets you know that the CareLink USB is ready to link your device to the software. The needed drivers have been correctly installed.

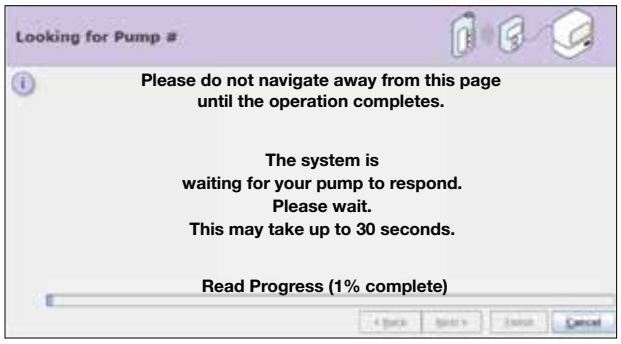
You now need to click **Finish**.

Have your insulin pump or Guardian device near the USB device and your data will begin to upload.


Verify Connections...
The CareLink® USB device is ready.
Click "Finish" to begin reading your pump...
NOTE: The pump will be suspended during reading.
Be sure to check that the pump is no
longer suspended when you are finished.

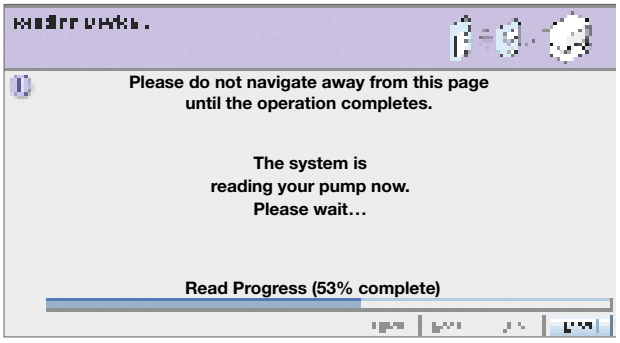
STEP 10:

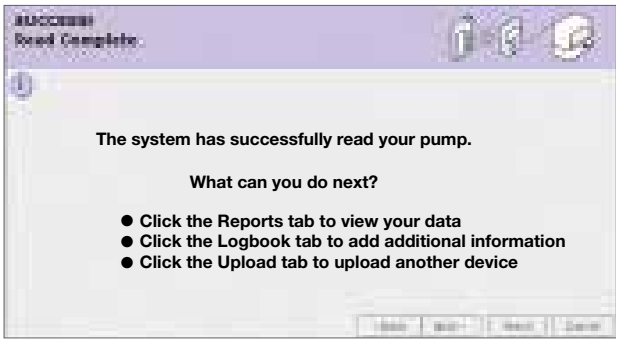
The **Looking for Pump #** xxxxxx tells you that the system is waiting for the pump to respond .


Looking for Pump #
Please do not navigate away from this page
until the operation completes.
The system is
waiting for your pump to respond.
Please wait.
This may take up to 30 seconds.
Read Progress (1% complete)

STEP 11:
A progress window will then be displayed. The amount of time it takes to upload your data will depend on how much data needs to be uploaded.

When the upload completes successfully, a **message** will be displayed, and allow you to view your reports.


Please do not navigate away from this page
until the operation completes.
The system is
reading your pump now.
Please wait…
Read Progress (53% complete)


The system has successfully read your pump.
What can you do next?
Click the Reports tab to view your data
Click the Logbook tab to add additional information
Click the Upload tab to upload another device

NOTE Be sure to upload any additional devices that you use, such as your glucose meter. To do so, follow the above steps. This will allow you to see all your important information on your CareLink reports.

To upload a glucose meter you will need a cable that works with your specific compatible meter.

If you are using a linked meter, your glucose values will be in your insulin pump or Guardian and do not need to be uploaded separately.

If you click on another tab or link during an upload, the upload will be cancelled. You can also stop the upload by clicking **Cancel**.

UPLOADING YOUR METER TO A MAC

If you are using a Mac, there are a few additional steps to follow to set up your computer to upload your compatible blood glucose meter.

NOTE Make sure to start up your Mac in 32-bit kernel mode whenever you want to upload your meter. By default, most Mac computers start in 32-bit kernel mode.

STEP 1:
Get a serial cable from the meter manufacturer. You will need a serial cable because most meter manufacturers that provide USB cables do not provide Mac support.

STEP 2:
Get a USB-to-serial adapter that is compatible with your Mac operating system. You will need a USB-to-serial adapter because Mac computers do not have serial ports.

STEP 3:
Go to **www.medtronicdiabetes.com/carelinksetup** and click on the link for **Setting Up & Uploading on a MAC**. Next, click on **Uploading Your Meter & Multiple Devices**. This will provide you with links to any drivers you will need to install to use your USB-to-serial adapter for the MAC operating system on your computer.

STEP 4:
When prompted, enter your Mac username and password. The username must be the Administrator on your computer.

STEP 5:
Restart your computer when instructed.

STEP 6:
Plug the USB adapter for your meter cable into your USB port. Plug your meter serial cable into the USB adapter.

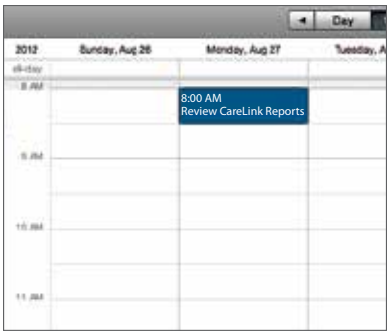
NOTE The first time you connect the cable after installing the driver, you may see a screen that tells you that a new network interface has been detected. Do the following:

- **Click Network Preferences. The Network window is displayed.**
- **Click Apply.**
- **Close the Network window.**

TIPS FOR USING CARELINK

Regularly upload and review your information using CareLink

CareLink can help you get the most out of your MiniMed insulin pump or Guardian monitor. Pick a day each week and spend a few minutes to invest in yourself by reviewing CareLink reports to improve your glucose control.



Discuss therapy adjustments with your healthcare professional

Make sure to talk to your healthcare professional before making any changes to your settings.

Make one or two changes at a time

CareLink may help reveal the changes needed to better manage your glucose levels. Take it slowly and focus on changing one or two things at a time. CareLink helps to show how each therapy decision you make affects your glucose levels. Make CareLink a part of your regular diabetes routine to achieve the best possible outcomes.

Bring reports to appointments with your healthcare professional

Bringing your CareLink reports to your appointments gives your healthcare professional the option to use them when making decisions about therapy adjustments and ways to improve your diabetes care. You may also identify questions or concerns from the reports that you want to discuss with your healthcare professional.

Did You Know? Your healthcare professional may be able to view your reports on their office computer if they have CareLink Pro Software. If they do not have this software, you can print out your CareLink Personal reports to bring to your next office visit.

READING CARELINK REPORTS

Reading your reports is as easy as 1-2-3!

Follow these three steps to read your **Daily Summary** and **Sensor Daily Overlay** reports. An overview of these reports can be found on pages 22–25 of this guide.

Step 1: Look at the overnight period		
Do you see a pattern of lows?	Consider talking to your healthcare professional (HCP) about reducing your overnight basal insulin/rates.	
Do you see a pattern of highs?	Was your BG level already high before bed? Was there a bedtime snack? Consider talking to your HCP about increasing your basal insulin/rates or if on an insulin pump, changing the timing of your basal rate to increase during the night.	
Step 2: Look at the period before meals		
Do you see a pattern of lows?	Consider talking to your HCP about decreasing your basal insulin.	
Do you see a pattern of highs?	Consider talking to your HCP about increasing your basal insulin.	
Step 3: Look at the period after meals		
Do you see a pattern of lows?	Determine whether food was an issue. Were you accurately carb counting? Was insulin given at the right time?	Is your carb ratio correct? If using an insulin pump, consider whether a Dual Wave® bolus would have been better for meals high in carbs and fat.
Do you see a pattern of highs?	Determine whether food was an issue. Were you accurately carb counting? Was insulin given at the right time?	Is your carb ratio correct? If using an insulin pump, consider whether a Dual Wave® bolus would have been better for meals high in carbs and fat.

Insulin sensitivity, carb ratios and active insulin may also be contributing factors. Discuss these and any other changes (such as what to do for exercise) with your healthcare professional.

Use the 1-2-3 approach to reading your reports. Looking at specific sections of each report will help you and your healthcare professional better manage your diabetes.

Be sure to share any regular patterns with your healthcare professional.

CARELINK PERSONAL REPORTS

CareLink Personal software generates many useful reports. In the beginning, focus on one or two key CareLink reports. We will review several key reports here beginning with reports for those using the pump with meter data, the pump with CGM data, and those using CGM only.

Remember Guardian users: In order to see insulin delivery, diet and exercise information in your reports, you must enter this information using the Capture Events feature in your device or the **Logbook** of CareLink.

Report	What is in this report?	How do I use this report?
Quick View Summary	Summary of insulin delivery, diet and exercise, and glucose levels.	Uncover potential insulin delivery issues related to glucose, meals, and/or activity.
Daily Summary	Glucose readings, basal and bolus insulin delivery, and carbohydrate and exercise levels for one day.	See the effect of carbohydrates, exercise and insulin delivery have on glucose levels.
Logbook Diary	Logbook information such as BG readings, carbohydrate entries, and boluses, grouped by periods of the day.	Review past treatment decisions to understand possible areas for improvement.
Data Table	All collected information over the selected reporting period.	Better understand information in other reports.
Modal Day Periods	BG readings over a period of time, grouped by periods in the day.	See how well your glucose stays within your target range at certain periods of the day.
Modal Day Hourly	BG readings over a period of time grouped by the hour of the day.	See patterns in BGs related to the time of day, as well as an overall summary of BG readings.
Trends Summary	Statistics of glucose control, insulin usage, and carbohydrate intake.	See average glucose readings, insulin usage and carbohydrate intake.
Device Settings	Insulin pump, CGM device, and meter settings for a particular time and day.	View pump, CGM, and meter settings.
Sensor Overlay	7 days of glucose sensor readings in a single chart.	Identify recurring patterns from day to day.
Sensor Weekly Logbook	A table of sensor and Logbook information broken up into pre-meal, post-meal, evening and sleep periods.	See how boluses, basal insulin and external events affect blood sugars.
Sensor Overlay by Meal	Sensor readings and glucose averages around pre-set meal periods (breakfast, lunch, dinner).	Review the effects of food, bolus insulin and pre-meal glucose levels on post-meal control.
Data Export (CSV)	Tool for exporting data out of CareLink into other programs.	Export the data from CareLink to other programs to allow for more detailed analysis.

☐ = Shaded reports require the use of CGM to obtain sensor values.

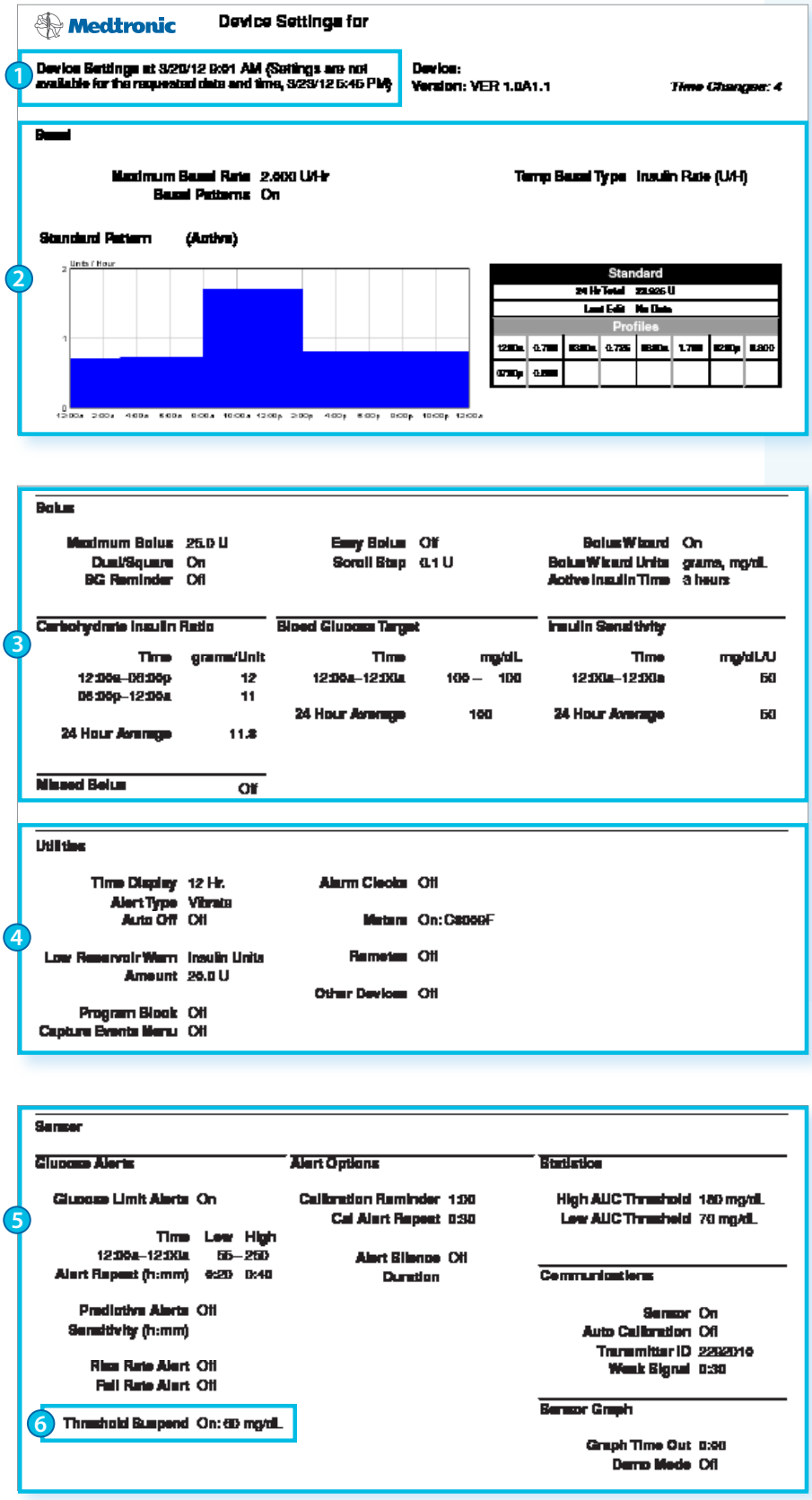
Device Settings Report

This report shows the settings you have programmed into your pump or Guardian monitor — **alarm volume, the remote serial number, alert settings, etc.**

It provides a helpful record of your device settings in case of settings loss or allows you to track how your settings have changed over time. You can also protect device settings by using the Save Settings feature in the **Utilities > User Settings** menu on your pump or Guardian monitor.

The date and time you select for your Device Settings report affects the data in the report.

NOTE This report does not show actual insulin usage, it only displays the basal rates that have been programmed into the pump. It also shows which basal rate was active at the time of upload.



1. The time and date for the settings of the device listed
2. Shows your basal settings and highlights the pattern that is active at the time of the upload.
3. Bolus settings include Bolus Wizard settings such as carbohydrate ratio, Bolus Wizard targets, insulin sensitivity, active insulin time and any special features that might be turned on.
4. Utility features and settings.
5. Sensor alerts and settings if you are using a sensor. Review to see if your sensor alerts are appropriate – are you missing alerts you need or getting more than you desire?
6. If you have a pump enabled with the Threshold Suspend feature you will see that setting here.

Quick View Summary Report

This report provides you with a summary of the following for the two-week period you select:

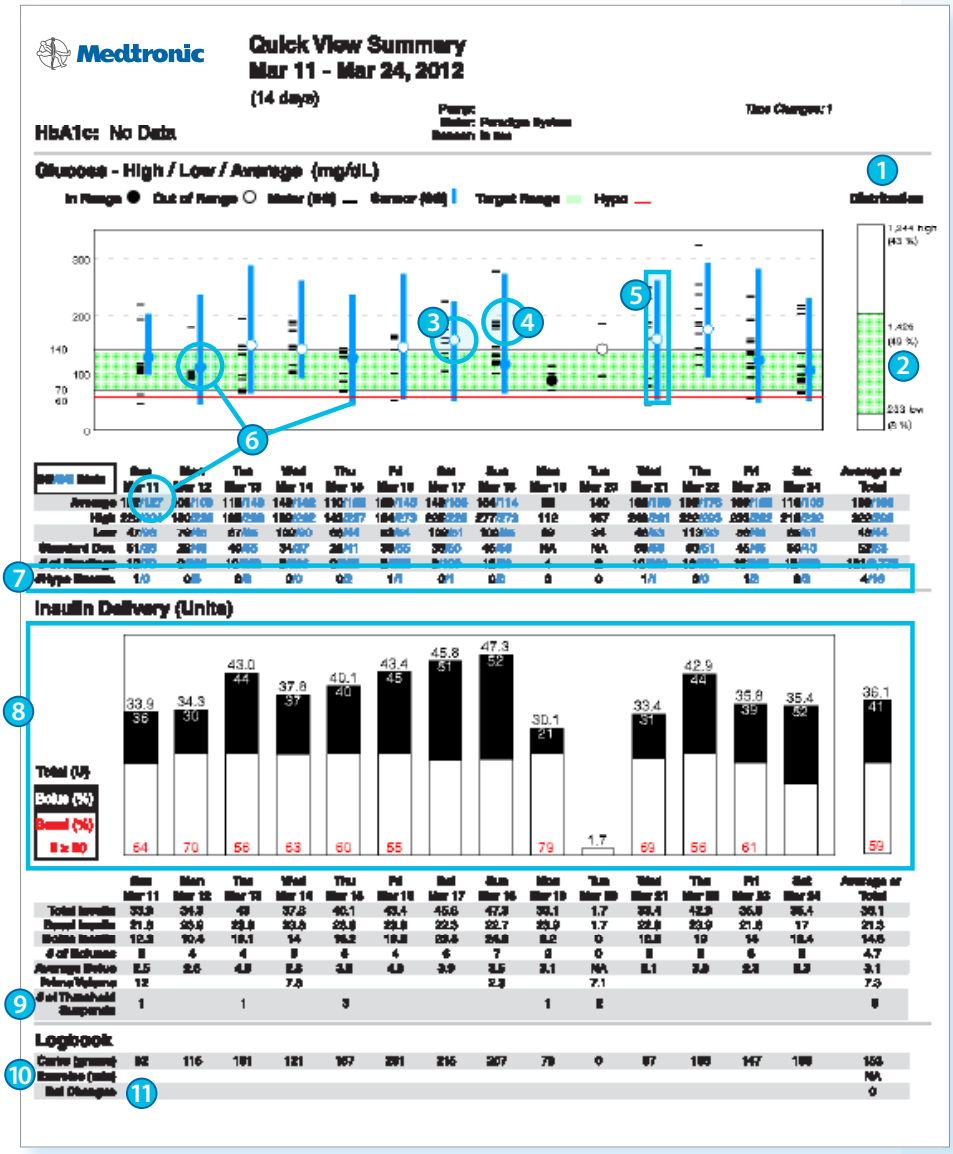
- **Glucose control (including averages, highs and lows, number of readings, and hypo events)**
- **Insulin usage (including totals, percent basal and bolus, number and average of boluses, and priming/filling information)**
- **Carbohydrate intake (if entered in the Capture Event feature, the Bolus Wizard,® or in your Logbook)**
- **Exercise (if entered in your logbook)**
- **Infusion set changes (if entered in your logbook).**

If you are using a sensor-enabled pump or a Guardian® monitor, this report may include glucose data captured by the sensor. This is in addition to blood glucose information captured by a glucose meter.

If you run the Quick View Summary report for the Guardian monitor only, this report will look slightly different from what is described here when insulin delivery is shown.

To retrieve certain data from a MiniMed pump or Guardian monitor, you must first have entered the data by using the Capture Event feature, the Bolus Wizard Calculator, or by entering the data in the logbook.

IMPORTANT If you enter the same data in multiple places (Capture Event, Bolus Wizard, or the Logbook), you may see duplicate information. This data is entered manually on the monitor or pump. It includes meter BG reading, exercise you do, boluses given carbohydrates eaten and other events. Refer to the Capture Event instructions in the user guide for your device. (The Capture Event feature is not available for the 515/715 or 522/722 pumps.)



1. Total number of glucose readings and the percentage you were above, below and within your target glucose range during the period.
2. Percentage of total readings within target range.
3. Circles indicate your average glucose for the day.
4. Black hash marks identify Blood Glucose (BG) values from your BG meter.
5. Vertical lines show your range of glucose values for the day.
6. Circles, lines, and statistics in Blue are Sensor Glucose (SG) values from the sensor.
7. Number of hypo events during this period.
8. The total amount of insulin you received each day, and breakdown of bolus (solid black bar) and basal (solid white bar) insulin.
9. The number of Threshold Suspends that occurred on specific days.
10. The days you exercised.
11. When your infusion set was changed.

Daily Summary Report

The **Daily Summary Report** shows glucose readings, basal and bolus insulin delivery, and carbohydrate and exercise levels for one day. This report helps you identify the cause and effect of specific high and low glucose events.

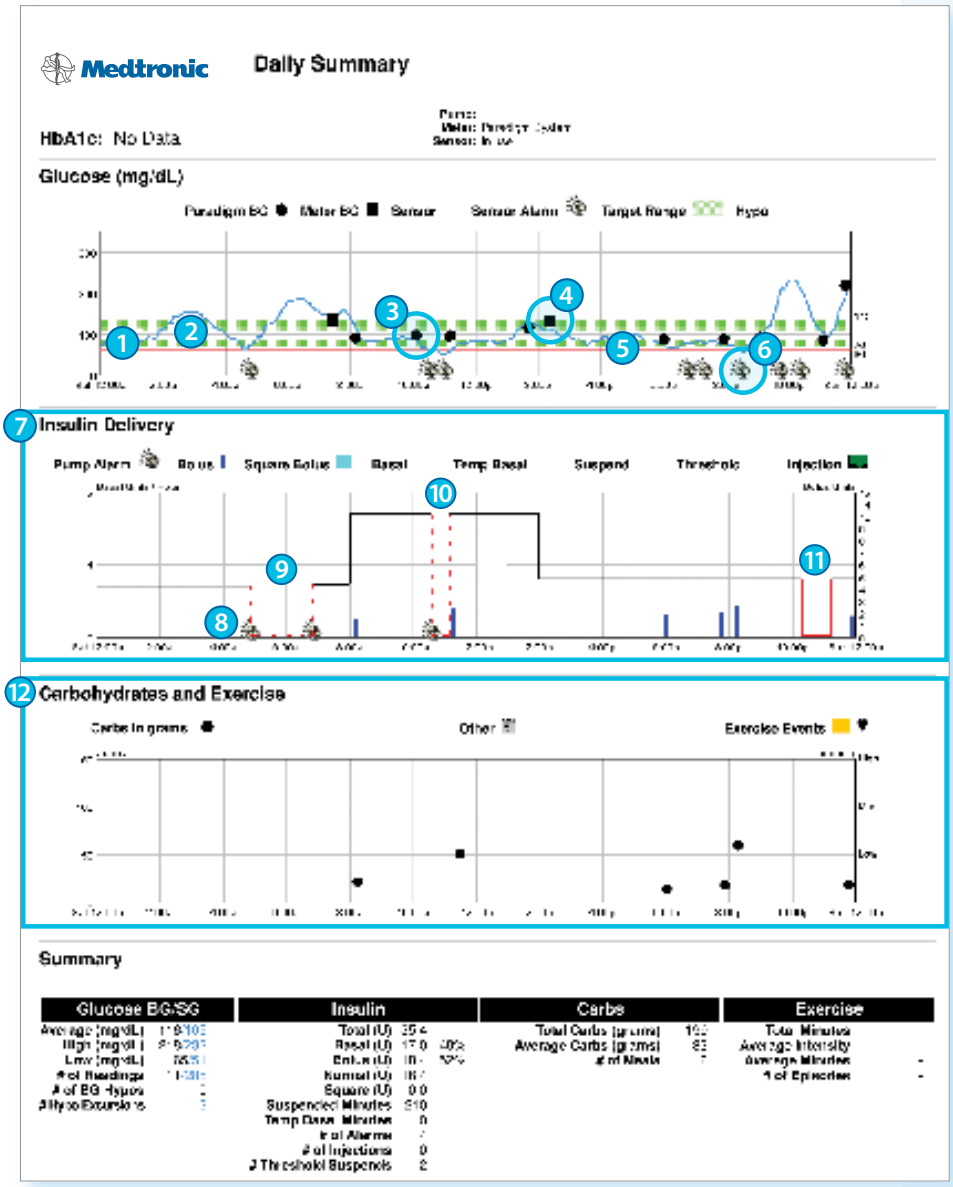
There are four main sections to the **Daily Summary Report**, shown on the following page:

- **Meter and Sensor Glucose Readings**
- **Insulin Delivery**
  - Allows you to see the amount and type of insulin delivered throughout the day, as well as any pump alarms and times when delivery of insulin was suspended.
  - If you have a Threshold Suspend enabled pump, the dashed red lines indicate when the pump suspended insulin delivery due to sensor value reaching the Threshold Suspend limit.
    - An alarm icon will show at the beginning of the suspend.
    - A second alarm icon will show if the pump resumes basal insulin without user interaction with the pump.
- **Carbohydrates and Exercise**
  - Carbohydrates: Get the most out of CareLink by entering carbohydrate information in **Capture Events** in your insulin pump or Guardian or by using the **Logbook** feature in CareLink. For insulin pump users, every time you use the Bolus Wizard feature, your carbohydrate information automatically gets recorded for you to view in your CareLink reports.
  - Exercise: Enter time, duration and intensity (low, medium, high) of exercise events using the **Logbook** feature in CareLink or add the exercise icon in Capture Events on your insulin pump or Guardian.
- **Summary**

All three graphs on the **Daily Summary Report** are in the same chronological order and aligned throughout the day. Use these graphs together to understand the effect that carbohydrates, exercise and insulin delivery have on your glucose levels.

IMPORTANT To retrieve certain data from a MiniMed insulin pump or Guardian monitor, you must first have entered the data by using the Capture Event feature, the Bolus Wizard® Calculator or entered the data in the CareLink Personal Logbook.

You **do not** want to enter the same data in multiple places (Capture Events, Bolus Wizard, CareLink Logbook) or you may see duplicate information.



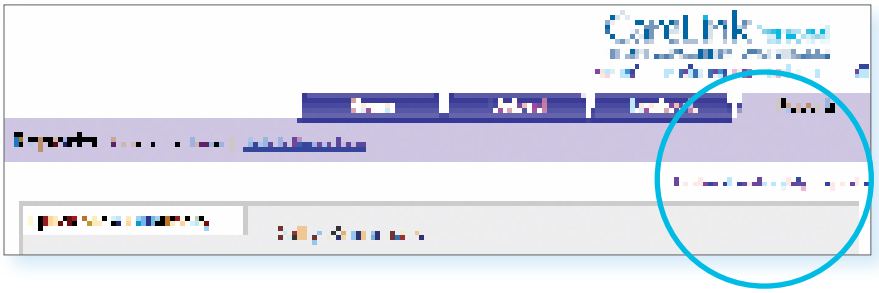
1. Blue line represents sensor readings.
2. Green shaded area represents the target glucose range set in the preferences section of CareLink.
3. Black circles represent linked BG meter readings, marked "Paradigm BG".
4. Black squares represent BG readings manually entered into the device.
5. The red line is the low glucose indicator set in the preferences section of CareLink. The default setting is 60 mg/dL. If your device has a Threshold Suspend feature you may want to set this value to match your Threshold Suspend value.
6. Sensor alarm received.
7. Shows basal and bolus insulin. This looks different if you are using Guardian.
8. Pump alarm received
9. Threshold Suspend with auto resume of basal insulin after 2 hours identified by a dashed red line with alarms at the start and end of the event.
10. Threshold Suspend with response by user
11. Manual suspend by user
12. The carbs eaten and exercise information (if entered).

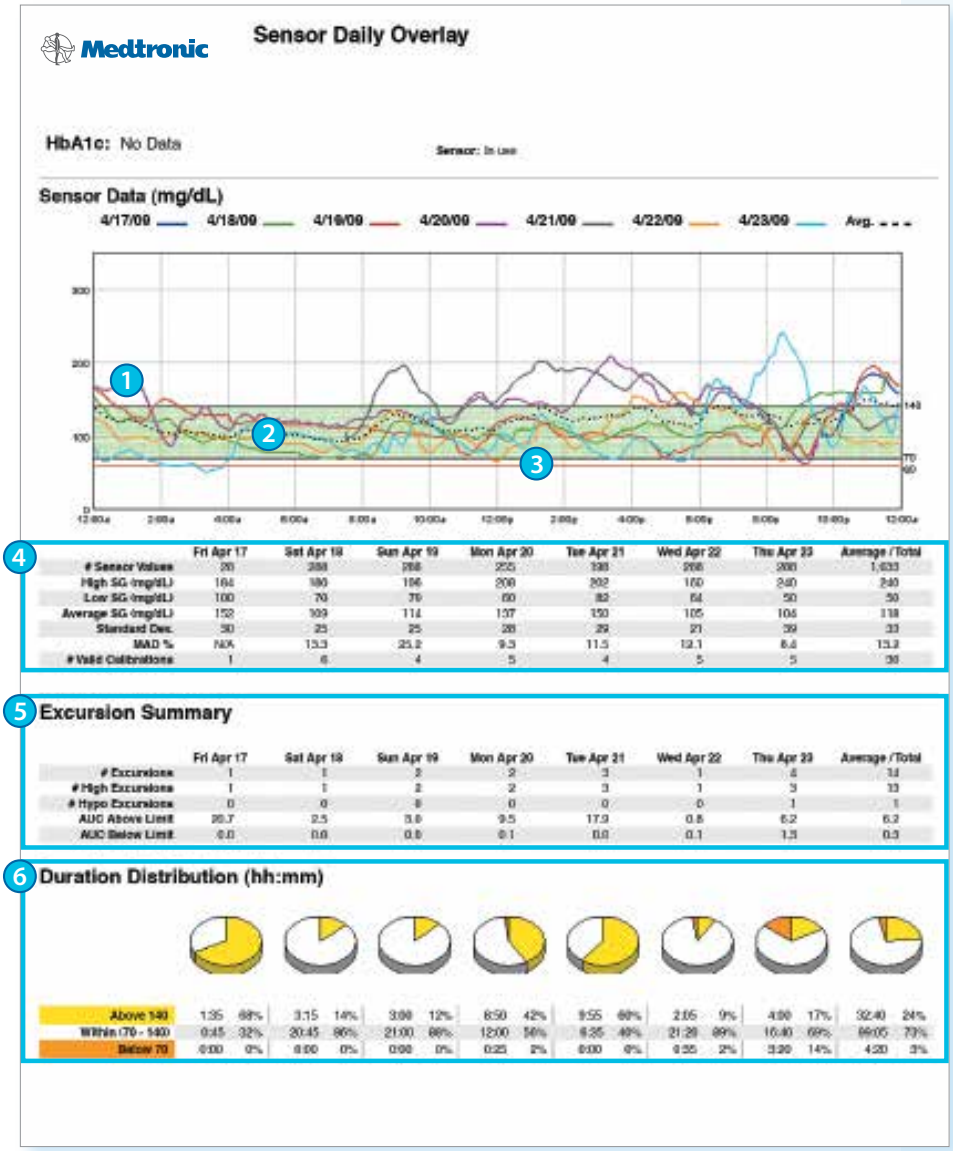
Sensor Daily Overlay Report

The **Sensor Daily Overlay Report** shows 7 days of glucose sensor readings in a single chart. Each day has a different color tracing so you can easily tell them apart, allowing you to identify recurring patterns from day to day or at specific times of day.

The **Sensor Daily Overlay Report** also helps you identify specific days that you may want to look at in more detail with the **Daily Summary Report**. If you see an event in your report that appears out of the ordinary, use the **Daily Summary Report** to identify its cause.

For more detail on reading your reports, use the Understanding My Reports tab in CareLink or refer to the CareLink module in myLearning.





1. This graph shows a 7-day overlay of sensor glucose values. Each day is shown with a different color.
2. The green shaded area represents the target glucose range set in the preferences section of CareLink and shows whether you are meeting your goals for glucose control. The default setting is 70-140 mg/dL.
3. The red line represents the low glucose indicator set in the preferences section of CareLink. The default setting is 60 mg/dL. If your device has a Threshold Suspend feature you may want to set this value to match your Threshold Suspend value.
4. Specific information regarding each day's sensor readings and calibrations.
5. The number and type of excursions outside the target glucose range.
6. The amount of time spent above, in and below your target glucose range on a pie chart.

Sensor Overlay by Meal Report

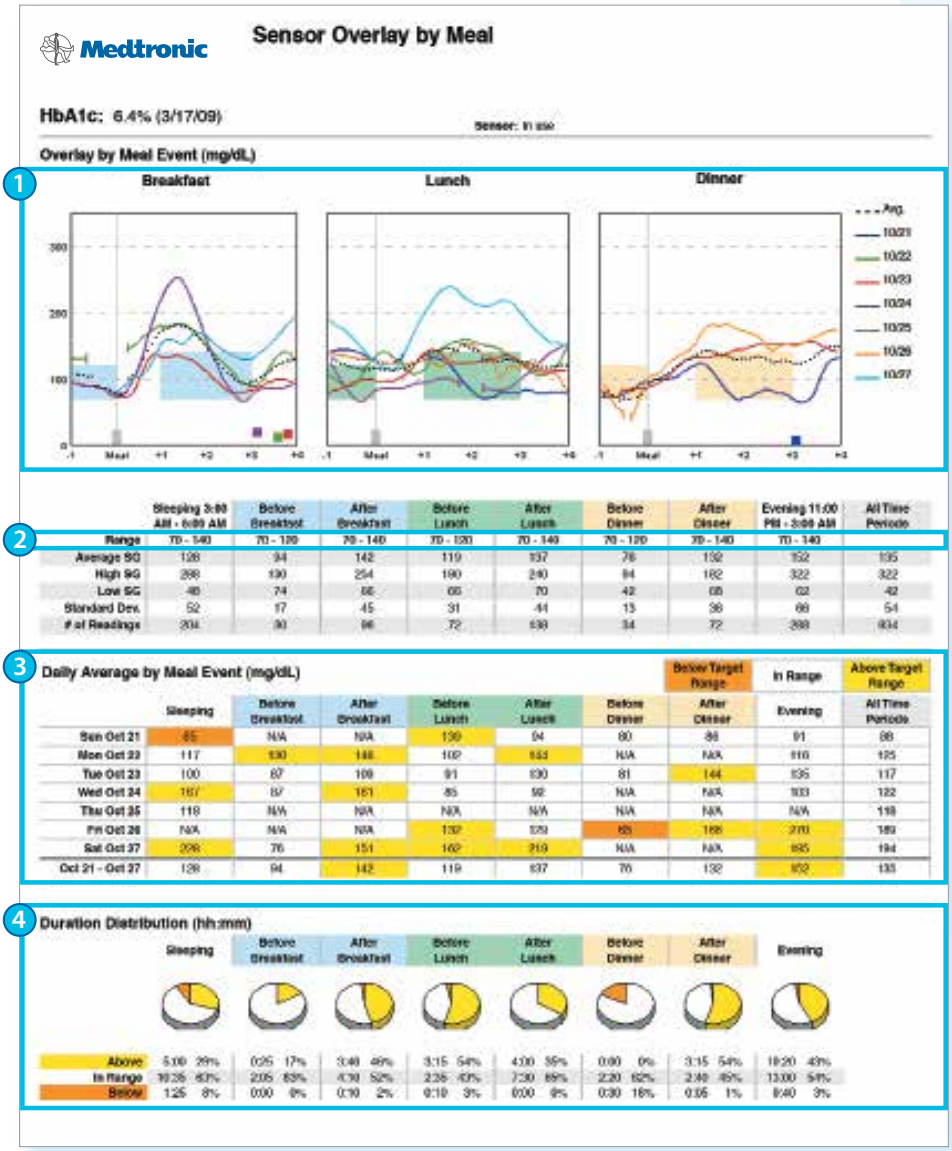
The **Sensor Daily Overlay by Meal Report** shows your glucose values related to meal times.

You choose up to seven days of glucose tracings you want to see. This report layers the tracings on top of each other so you can compare the days to each other in time blocks associated with Breakfast, Lunch and Dinner. Each day has a different color tracing so you can tell them apart.

Averages and totals across all days in the report are displayed in tables for each meal, evening and sleep time period. In addition, pie charts show the duration of time above, below and within target range for each time period.

The time periods and target ranges used for this report come from the Advanced Intraday Periods Preferences you set on the Preferences screen.

You can check the "Guidelines for setting Advanced Intraday Periods" section of the User Guide for more information on how to change these time periods and target ranges.



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Sensor Overlay by Meal

HbA1c: 6.4% (3/17/09)

Sensor: In use

Overlay by Meal Event (mg/dL)

1

2

	Sleeping 3:00 AM - 6:00 AM	Before Breakfast	After Breakfast	Before Lunch	After Lunch	Before Dinner	After Dinner	Evening 11:00 PM - 3:00 AM	All Time Periods
Range	70 - 140	70 - 120	70 - 140	70 - 120	70 - 140	70 - 120	70 - 140	70 - 140	
Average SG	128	94	142	119	137	76	132	152	135
High SG	288	190	254	190	240	84	182	322	322
Low SG	48	74	66	66	70	42	68	62	42
Standard Dev.	52	17	45	31	44	15	36	68	54
# of Readings	204	90	86	72	138	34	72	288	834

3

Daily Average by Meal Event (mg/dL)

	Sleeping	Before Breakfast	After Breakfast	Before Lunch	After Lunch	Before Dinner	After Dinner	Evening	All Time Periods
Sun Oct 21	85	N/A	N/A	139	94	80	88	91	88
Mon Oct 22	117	130	188	102	153	N/A	N/A	116	125
Tue Oct 23	100	87	109	91	130	81	144	135	117
Wed Oct 24	167	87	161	85	92	N/A	N/A	103	122
Thu Oct 25	118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	118
Fri Oct 26	N/A	N/A	N/A	137	179	65	188	270	189
Sat Oct 27	206	76	151	162	219	N/A	N/A	185	194
Oct 21 - Oct 27	128	94	142	119	137	76	132	152	133

Below Target Range | In Range | Above Target Range

4

Duration Distribution (hh:mm)

	Sleeping	Before Breakfast	After Breakfast	Before Lunch	After Lunch	Before Dinner	After Dinner	Evening
Above	5:00 29%	0:25 17%	3:40 46%	3:15 54%	4:00 55%	0:00 0%	3:15 54%	10:20 43%
In Range	10:25 63%	2:05 83%	4:30 52%	2:35 43%	7:30 89%	2:20 82%	2:40 45%	13:00 54%
Below	1:25 8%	0:00 0%	0:30 2%	0:10 3%	0:00 0%	0:30 18%	0:05 1%	0:40 3%

1. A 7-day overlay of glucose readings at the breakfast, lunch and dinner periods set in the CareLink preferences. The overlay graph will only show SG readings for days when carbohydrates have been entered during the preset meal period.
2. The range of glucose readings for the pre- and post-meal period over 7 days.
3. The daily average glucose reading for each meal period.
4. The duration and percentage of time spent above, in and below the target glucose range for each meal period.

CareLink offers you and your healthcare professional access to information to help you make better therapy decisions and improve your glucose control.

THERAPY ADJUSTMENT WITH CARELINK

In this section, you will see a number of examples of CareLink reports with sample information. These reports may identify a need for possible adjustments, such as:

Preventing Nocturnal Hypoglycemia

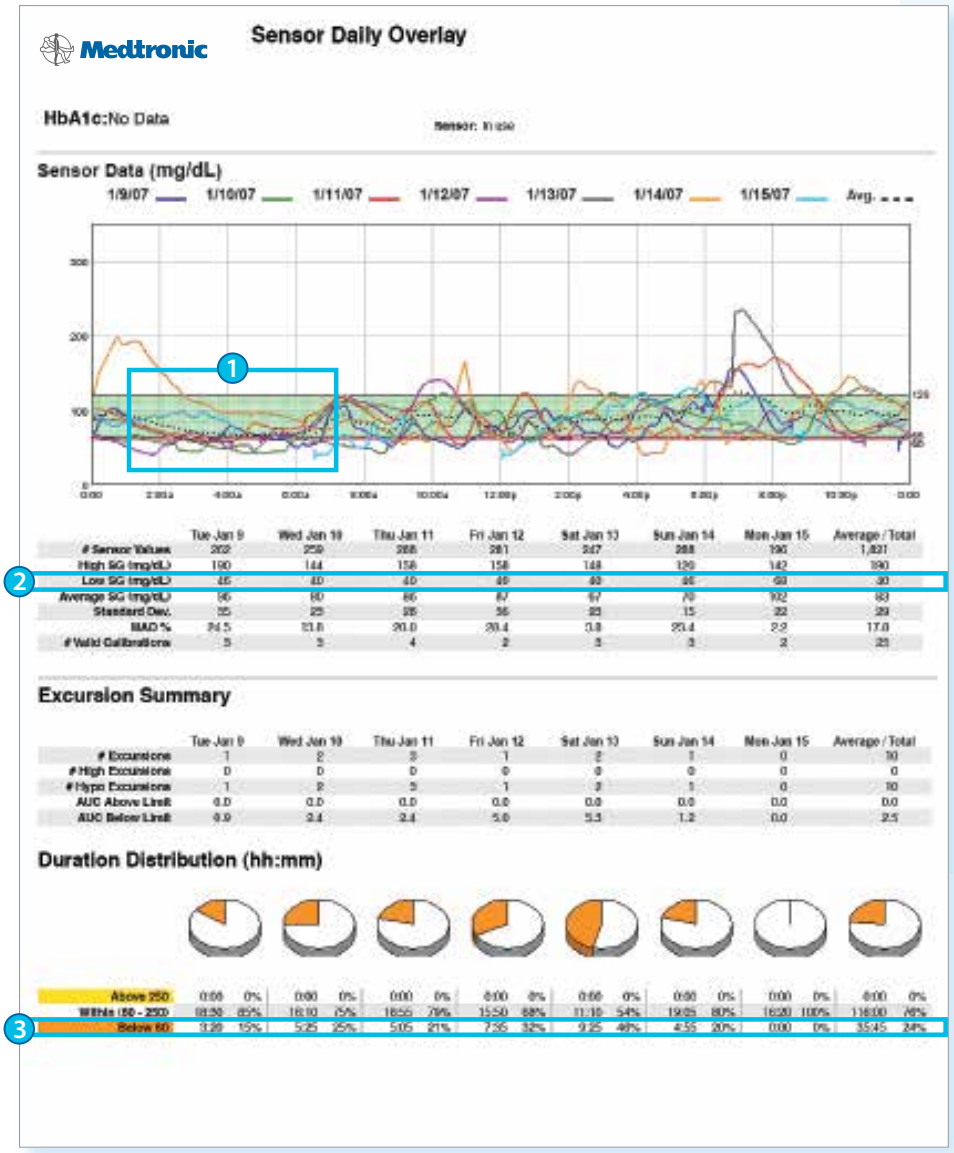
Improving Insulin Dosing

Fine-Tuning Alarm and Alert Settings

The following reports show examples that are intended to help clarify the types of trends and patterns you may see in your own reports. Use this information as a reference when reviewing your reports and looking for possible trends or patterns.

Preventing Nocturnal Hypoglycemia

Low glucose levels at night are a common issue for many people living with diabetes.



1. A clear trend of nocturnal hypoglycemia, heading lower throughout the night, as shown by the average SG line.
2. Low SG shows SG levels as low as 40 mg/dL during the night.
3. Shows the duration and percentage of time spent below 60 mg/dL.

If you see a trend of low glucose levels at night in your CareLink reports, discuss this with your healthcare professional, as you may need an insulin dose adjustment.

Improving Insulin Dosing

As you adjust to insulin pump therapy and improve your control, you may notice trends associated with too much or not enough insulin.

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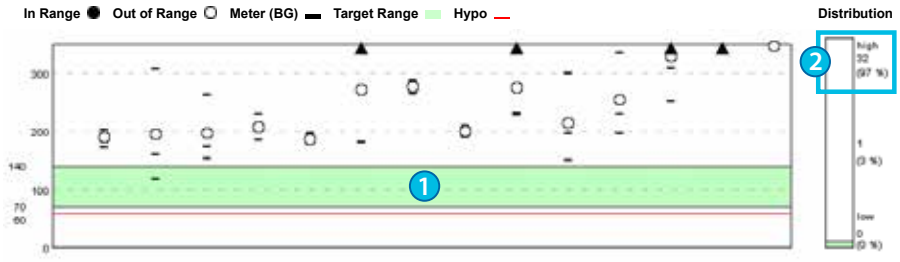
Quick View Summary

HbA1c: No Data

Pump: Paradigm Revel - 523

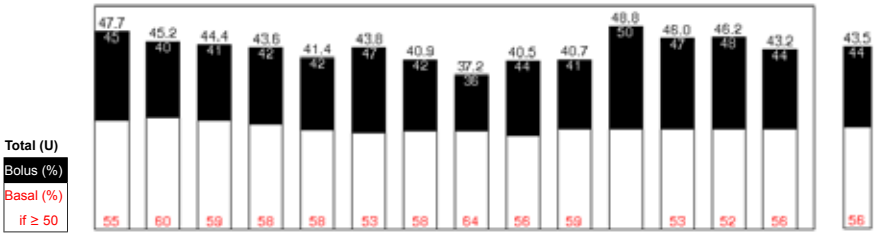
Glucose - High / Low / Average (mg/dL)

In Range ● Out of Range ○ Meter (BG) ▬ Target Range ▬ Hypo ▬



BG Stats	Mon Jun 18	Tue Jun 19	Wed Jun 20	Thu Jun 21	Fri Jun 22	Sat Jun 23	Sun Jun 24	Mon Jun 25	Tue Jun 26	Wed Jun 27	Thu Jun 28	Fri Jun 29	Sat Jun 30	Sun Jul 1	Average or Total
Average	189	195	197	206	187	272	276	200	275	215	254	328	448	346	243
High	202	306	263	229	197	364	287	209	366	299	335	426	448	346	448
Low	173	118	154	184	177	181	265	190	228	149	197	251	448	346	118
Standard Dev.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	81
# of Readings	3	3	3	2	2	2	2	2	3	3	3	3	1	1	33
#Hypo Excurs.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Insulin Delivery (Units)



	Mon Jun 18	Tue Jun 19	Wed Jun 20	Thu Jun 21	Fri Jun 22	Sat Jun 23	Sun Jun 24	Mon Jun 25	Tue Jun 26	Wed Jun 27	Thu Jun 28	Fri Jun 29	Sat Jun 30	Sun Jul 1	Average or Total
Total Insulin	47.7	45.2	44.4	43.6	41.4	43.8	40.9	37.2	40.5	40.7	48.8	46.0	46.2	43.2	43.5
Basal Insulin	26.3	27.0	26.3	25.2	24.1	23.2	23.7	23.8	22.6	24.2	24.2	24.2	24.2	24.2	24.5
Bolus Insulin	21.4	18.2	18.1	18.4	17.3	20.6	17.2	13.4	17.9	16.5	24.6	21.8	22.0	19.0	19.0
# of Boluses	7	4	4	6	4	5	5	5	4	4	5	6	4	4	4.79
Average Bolus	3.06	4.55	4.52	3.07	4.32	4.12	3.44	2.68	4.48	4.12	4.92	3.63	5.5	4.75	3.98
Fill Amount				2.2				1.3				2.1			1.87

Logbook

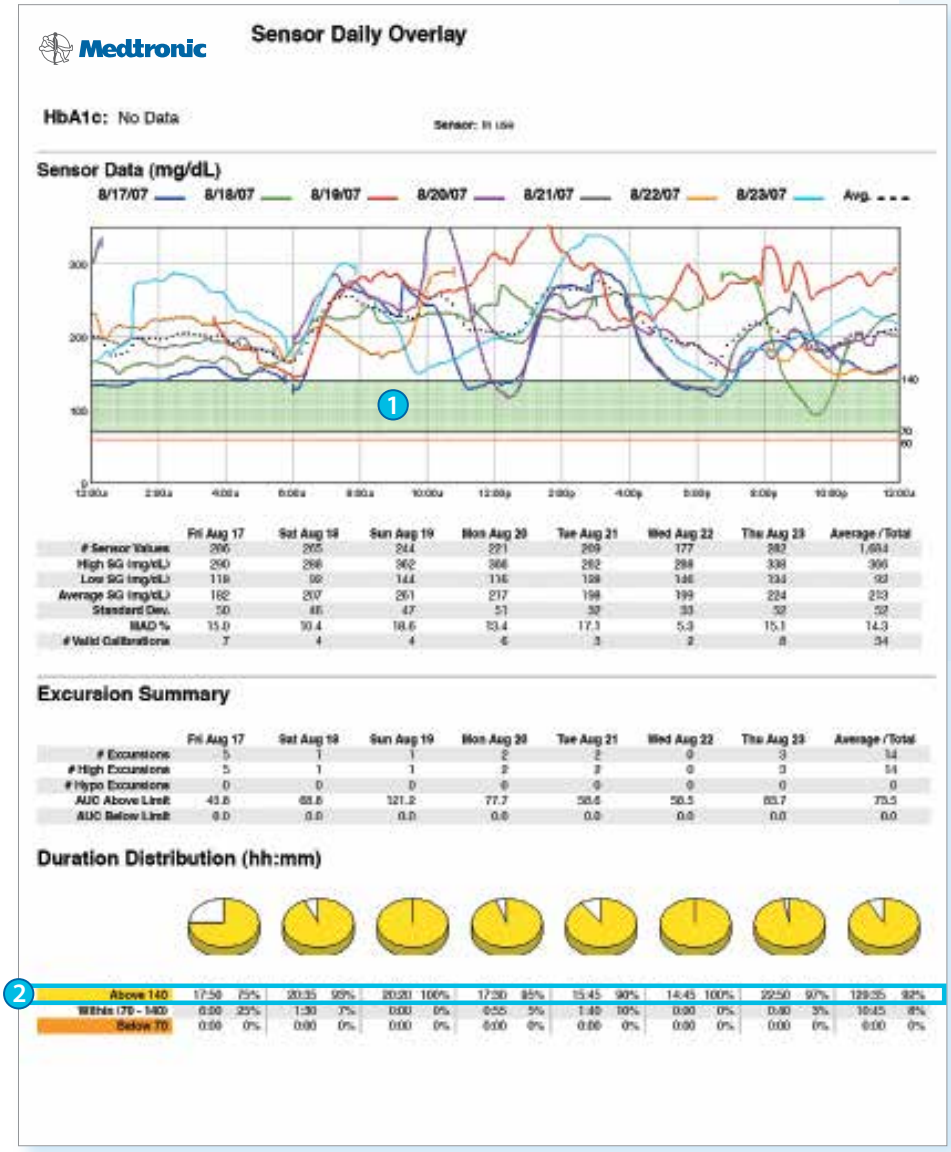
Carbs (grams)	102	110	96	40	47	30	20	42	90	96	65	40	0	0	65
Exercise (min)															NA
Set Changes															0

1. Very little time spent within the target glucose range.
2. Significant percentage of time spent above the high glucose target.

If your CareLink reports show a trend of glucose levels outside of your target glucose range, discuss this with your healthcare professional, as you may need an adjustment of your insulin doses.

Improving Insulin Dosing – CGM

As you adjust to CGM and improve your control, you may notice trends associated with too much or not enough insulin.



Medtronic

Sensor Daily Overlay

HbA1c: No Data

Sensor: [illegible]

Sensor Data (mg/dL)

8/17/07 8/18/07 8/19/07 8/20/07 8/21/07 8/22/07 8/23/07 Avg.

	Fri Aug 17	Sat Aug 18	Sun Aug 19	Mon Aug 20	Tue Aug 21	Wed Aug 22	Thu Aug 23	Average / Total
# Sensor Values	266	265	244	221	269	177	282	1,684
High SG (mg/dL)	290	288	362	366	282	288	338	306
Low SG (mg/dL)	118	99	144	116	128	146	134	93
Average SG (mg/dL)	182	207	261	217	198	199	224	213
Standard Dev.	50	46	47	51	32	33	32	52
MAD %	15.0	10.4	18.6	13.4	17.1	5.3	15.1	14.3
# Valid Calibrations	7	4	4	6	3	2	8	34

Excursion Summary

	Fri Aug 17	Sat Aug 18	Sun Aug 19	Mon Aug 20	Tue Aug 21	Wed Aug 22	Thu Aug 23	Average / Total
# Excursions	5	1	1	2	2	0	3	14
# High Excursions	5	1	1	2	2	0	3	14
# Hypo Excursions	0	0	0	0	0	0	0	0
AUC Above Limit	43.8	68.8	121.2	77.7	58.6	56.5	83.7	73.5
AUC Below Limit	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Duration Distribution (hh:mm)

Above 140	17:50	75%	20:35	95%	20:20	100%	17:30	85%	15:45	90%	14:45	100%	22:50	97%	129:35	92%
Within (70 - 140)	0:00	25%	1:30	7%	0:00	0%	0:55	5%	1:40	10%	0:00	0%	0:40	3%	10:45	8%
Below 70	0:00	0%	0:00	0%	0:00	0%	0:00	0%	0:00	0%	0:00	0%	0:00	0%	0:00	0%

1. Very little time spent within the target glucose range.
2. Significant percentage of time spent above the high glucose target.

If your CareLink reports show a trend of glucose levels outside of your target glucose range, discuss this with your healthcare professional, as you may need an adjustment of your insulin doses.

Fine-Tuning Alarm and Alert Settings

Too many alarms and alerts are a common concern when using CGM. CareLink helps to show when a change should be made to your alarm or alert settings.

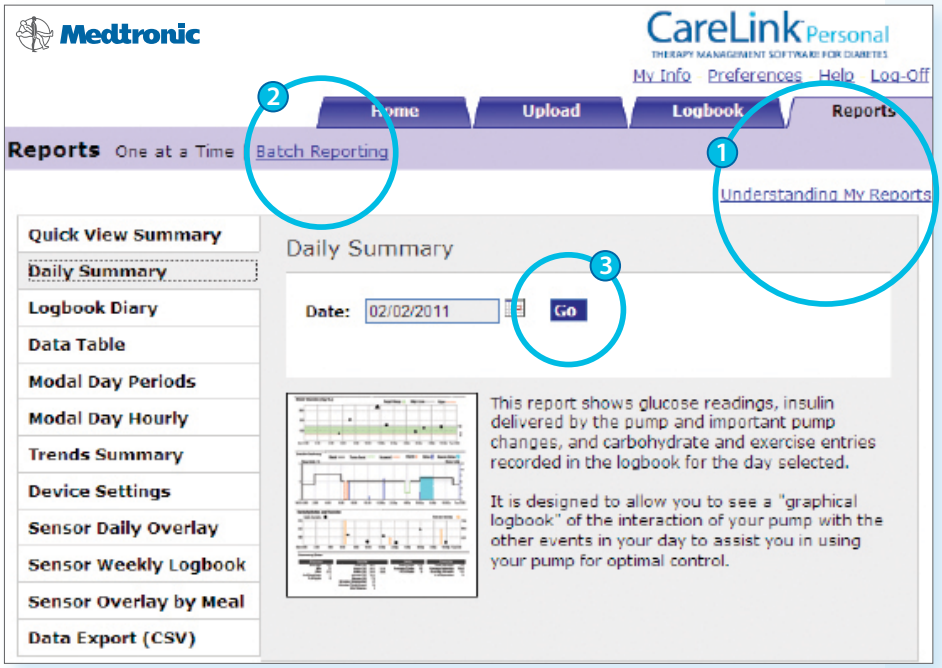
1. Sensor alarms and alerts throughout the day.

   Excessive alarms and alerts can cause difficulty and frustration with the system. If you see a similar pattern in your reports, consider modifying your alert or snooze settings.

2. Pump alarms – If you have a Threshold Suspend enabled pump and notice a pattern of Threshold Suspend events occurring in your reports, discuss this with your healthcare professional.

Alarms and alerts should serve as a helpful reminder and should not be a nuisance.

Understanding, Generating and Viewing Reports


Medtronic
CareLink Personal
My Info Preferences Help Log-Off
Home
Upload
Logbook
Reports
Reports One at a Time
Batch Reporting
Understanding My Reports
Quick View Summary
Daily Summary
Logbook Diary
Data Table
Modal Day Periods
Modal Day Hourly
Trends Summary
Device Settings
Sensor Daily Overlay
Sensor Weekly Logbook
Sensor Overlay by Meal
Data Export (CSV)
Daily Summary
Date: 02/02/2011
Go
This report shows glucose readings, insulin delivered by the pump and important pump changes, and carbohydrate and exercise entries recorded in the logbook for the day selected.
It is designed to allow you to see a "graphical logbook" of the interaction of your pump with the other events in your day to assist you in using your pump for optimal control.
1
2
3

1. **Understanding Reports** – When you click this link, CareLink will display information describing the report you generated. Also, where appropriate, it explains what to look for in the results.

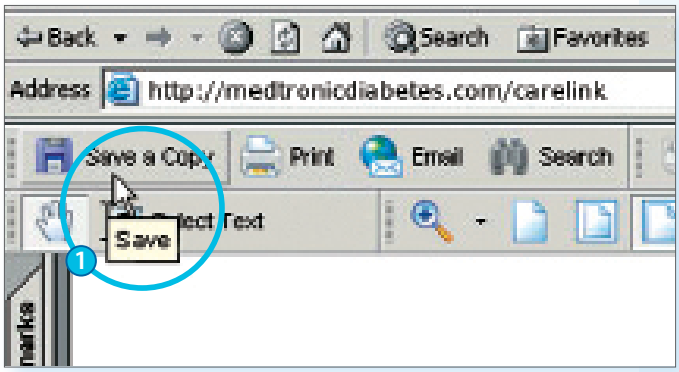
2. **Generating Reports** – Reports are displayed in PDF format. They can be viewed online, saved, printed or emailed. You can share your reports with your healthcare professional to help them make decisions about your treatment regimen.

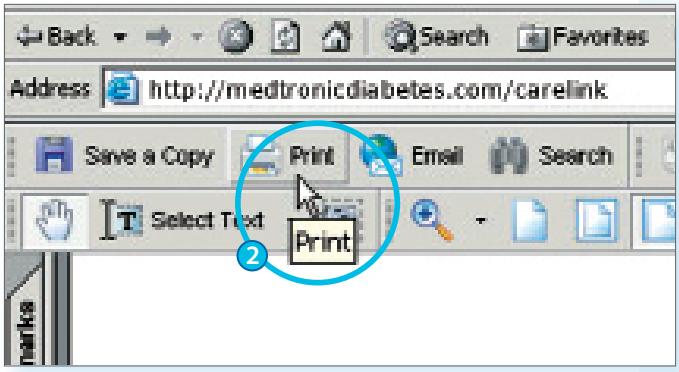
   Reports can be generated one at a time or in batches. **Batch reporting** allows you to choose a group of reports you would like to see and generate them all at once.

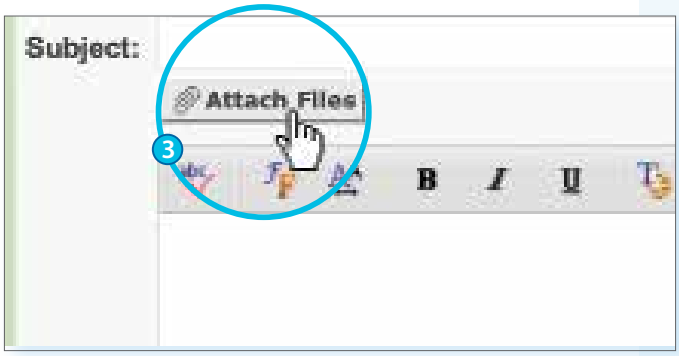
3. **Viewing Reports** – Select a report from the menu on the left-hand side of the screen. Select the date or date range for the report and click the Go button. Your report is displayed as a PDF file in a separate window.

NOTE There is an option to download and install Adobe Reader. The link is located on the bottom right hand side of the Reports page.

Saving, Printing and Emailing Reports







1. **Saving Reports** – To save your report, click Save a Copy on the Adobe® Acrobat® toolbar, as shown. Type a name for the report in the file name field and click Save.
2. **Printing Reports** – Once the report you generated is displayed, click Print on the Adobe® Acrobat® toolbar to open the print dialog box and print the report.
3. **Emailing Reports** – To email a report to your healthcare professional, Microsoft® Outlook® users can simply click Email on the Adobe Acrobat toolbar. An email form will automatically open with the report already attached. Simply type in your healthcare professional's email address and click Send.

   If you have a different email program, be sure your report is saved where you can easily find it. Start a new email message to your healthcare professional and use the Attach function to embed the report in the message.

   Be sure to get your healthcare professional's permission before emailing reports to them. Also, be aware that email may not be a secure form of communication. Your medical information contained within an emailed report is no longer protected under the security of the CareLink Personal Software system.

CARELINK PRO

Medtronic Diabetes also offers a professional version of CareLink, CareLink Pro. It allows your healthcare professional to view your CareLink information so you don't have to email or print your reports. Ask your healthcare professional if they have this software and are able to use it to access your CareLink reports.

Still have questions?
Visit www.medtronicdiabetes.com/carelinksetup
or call our Software Support Team at
1.800.646.4633, option 1
M-F, 7am-7pm Central Time.

www.MedtronicDiabetes.com

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